

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JULY 2009**PHARMACOLOGY—Paper I**

Time : Two Hours

Maximum : 40 Marks

*Answer all questions.**Draw diagrams wherever necessary.**Answer Sections A and B in separate answer-books.**MCQs should be answered first in the response sheet provided.***Section A**

- I. Multiple Choice Questions. Single response type (separate sheet attached). (8 × ½ = 4 marks)
- II. Match the following. Single response type (separate sheet attached). (8 × ½ = 4 marks)
- III. Draw a schematic diagram of dopaminergic transmission and mark the site of action of :
- (a) Carbidopa. (b) Selegiline.

(1 + ½ + ½ = 2 marks)

- IV. What is the pharmacological basis for the use of :
- 1 Adrenaline with Lignocaine for tooth extraction.
 - 2 Aspirin in myocardial infarction.
 - 3 Indapamide in Hypertension.
 - 4 Sodium cromoglycate for allergic asthma.

(4 × 1 = 4 marks)

- V. Write short notes on :

- 1 Preanaesthetic medication.
- 2 Teratogenicity.
- 3 Drug therapy of glaucoma.

(3 × 2 = 6 marks)

Section B

- VI. A 60 year old farmer, spraying pesticide in the field was brought to the casualty in an unconscious state. He was covered with urine, faeces, sweat and frothy sputum. His breathing was laboured and the pulse and B.P. were not recordable.

- 1 What are the above features due to ?
- 2 Name *two* groups of drugs used to treat this patient with one example each.
- 3 Explain the pharmacological basis for the use of the above drugs.
- 4 What advice can be given to prevent such accidents ?

(3 + 2 + 2 + 1 = 8 marks)

VII. Write *two* uses and *two* adverse effects each of :

- 1 Chlorpromazine.
- 2 Sodium valproate.
- 3 Streptokinase.
- 4 Morphine.

(4 × 1 = 4 marks)

VIII. Write short notes on :

- 1 Amiodarone.
- 2 Plasma expanders.
- 3 Succinyl choline.
- 4 Transdermal drug delivery systems.



PHARMACOLOGY—Paper I

I. MULTIPLE CHOICE QUESTIONS

Note.—(1) Do not write anything on the question paper.

(2) Write your register number on the answer-sheet provided.

(3) Select one most appropriate response and encircle the corresponding alphabet against each question in the answer-sheet provided

(4) In the response-sheet enter the total number of your answers in the appropriate box provided.

(5) Each question carries $\frac{1}{2}$ mark..

1. Which of the following agents does not act through cytoplasmic receptors ?

- (A) Prednisolone. (B) Calcitriol.
(C) Thyroxine. (D) Insulin.

2. Which of the following is likely to lower the plasma levels of Theophylline ?

- (A) Ritonavir. (B) Ciprofloxacin.
(C) Phenytoxin. (D) Erythromycin.

3. General anaesthetic useful in a patient with hypotensive shock is :

- (A) Halothane. (B) Ketamine.
(C) Thiopentone. (D) Midazolam.

4. Aumazenil can reverse the effects of all except :

- (A) Alprazolam. (B) Zolpidem.
(C) Thiopentone. (D) Betacarboline.

5. Which of the following is useful in acute muscle spasm ?

- (A) Pancuronium. (B) Baclofen.
(C) Scoline. (D) Dantrolene.

6. Which of the following is NOT effective in an acute attack of asthma ?

- (A) Salmeterol. (B) Terbutaline.
(C) Theophylline. (D) Formoterol.

7. Drug contraindicated in vasopastic angina is :

- (A) Nifedipine. (B) Isosorbide dinitrate.
(C) Atenolol. (D) Isosorbide mononitrate.

8. Cardiac remodelling can be reversed by all except :

- (A) Captopril. (B) Spironolactone.
(C) Digoxin. (D) Atenolol

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PHARMACOLOGY—Paper I

II. Match the following :

A. Drug with enzyme inhibited :

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|---------------|----------------------------------|
| 1 Disulfiram | (a) Vitamin K epoxide reductase. |
| 2 Moclobemide | (b) Dopamine beta oxidase. |
| 3 Warfarin | (c) Monoamine oxidase. |
| 4 Amrinone | (d) Alcohol dehydrogenase. |
| | (e) Phosphodiesterase. |

B. Drug with characteristic side effect :

- | | |
|--------------|-------------------------|
| 1 Prilocaine | (a) Agnoulucytosis. |
| 2 Fluoxetine | (b) Deafness. |
| 3 Frusemide | (c) Insomnia. |
| 4 Clozapine | (d) Methaemoglobinemia. |
| | (e) Alopecia. |